Medical
Thoman

610.5
J86
N53

TABLE OF CONTENTS

NO. 1. JANUARY 1948

Total and free acetylcholine in rat peripheral nerves. MARINA PRAJMOVSKY AND JOHN H. WELSH 1

Absence of spinal cord regeneration in the cat. LEO M. DAVIDOFF AND JOSEPH RANSOHOFF 9

The cingular gyrus: area 24. ARTHUR A. WARD, JR. 13

Phasic inhibition of the light reflex of the pupil during retinal rivalry. ERNST H. BÁRÁNY AND ULF HALLDÉN 25

The occipital alpha rhythm. A study of phase variations. ROBERT COHN 31

Some respiratory, vascular and thermal responses to stimulation of orbital surface of frontal lobe. JOSÉ M. R. DELGADO AND ROBERT B. LIVINGSTON 39

NO. 2. MARCH 1948

The electroencephalogram in experimental concussion and related conditions. JAMES W. WARD AND SAM L. CLARK 59

Observations on sensory paralysis produced by compression of a human limb. D. C. SINCLAIR 75

Observations on electrical stimulation of pain fibres in an exposed human sensory nerve. R. E. PATTLE AND G. WEDDELL 93

An anatomical basis for alterations in quality of pain sensibility. G. WEDDELL, D. C. SINCLAIR AND W. H. FEINDEL 99

Site of action of acetylcholine. MORTIMER A. ROTHENBERG, DAVID B. SPRINSON AND DAVID NACHMANSOHN 111

Retinal-nerve interval in the grasshopper. VERNER J. WULFF AND THEODORE L. JAHN 117

Effect of di-isopropyl fluorphosphate (DFP) on action potential and cholinesterase of nerve. IV. E. A. FELD, H. GRUNDFEST, D. NACHMANSOHN AND M. A. ROTHENBERG 125

Calibre spectra of motor and sensory nerve fibres to flexor and extensor muscles. BROR REXED AND PER-OLOF THERMAN 133

Effect of nicotine on spinal synaptic conduction and on polarisation of spinal cord. A. VAN HARREVELD AND GEORGE A. FEIGEN 141

Review 149

NO. 3. MAY 1948

Electrographic evaluation of mechanical response in mammalian skeletal muscle in different conditions. G. N. Loofbourrow 153

The electroencephalogram (EEG) in *curarized* mammals. Edward Girden 169

Corticocortical connections of the superior surface of the temporal operculum in the monkey (*Macaca mulatta*). O. Sugar, J. D. French and J. G. Chusid 175

Corticocortical connections of the superior bank of the Sylvian fissure in the monkey (*Macaca mulatta*). J. D. French, O. Sugar and J. G. Chusid 185

The Babinski sign. Extinction during bilateral simultaneous cutaneous stimulation. Robert Cohn 193

Afferent fibers in muscle nerves. David P. C. Lloyd and Hsiang-tung Chang 199

Double discharges in human motor units. J. S. Denslow 209

Secretory innervation of the cat's footpad. Harry D. Patton 217

An extension of the "law of denervation" to afferent neurones. Charles G. Drake and George W. Stavraky 229

Neural organization of the retinal elements, as revealed by polarization. Ragnar Granit 239

The mammalian colour modulators. Ragnar Granit 253

Differential action of anoxia, asphyxia and carbon dioxide on normal and convulsive potentials. E. Gellhorn and C. Heymans 261

Announcements 275

NO. 4. JULY 1948

Effect of delay of innervation on recovery of muscle after nerve lesions. E. Gutmann. 279

Response of single Ranvier nodes to electrical stimuli. Ichiji Tasaki and Kanji Mizuguchi 295

Modification of the electric response of a single Ranvier node by narcosis, refractoriness and polarization. Ichiji Tasaki, Kanji Mizuguchi and Kyoji Tasaki 305

Action currents of single nerve fibers as modified by temperature changes. Ichiji Tasaki and Minoru Fujita 311

Production of an alternating tremor at rest in monkeys. A. A. Ward, Jr., W. S. McCulloch and H. W. Magoun 317

Effect of potassium on "resting" potential and respiration of crab nerve. Abraham M. Shanes and Hoyt S. Hopkins 331

Properties of a single synapse in the stellate ganglion of squid. Theodore Holmes Bullock 343

An analysis of synaptic excitatory action. C. McC. Brooks and J. C. Eccles 365

Temporal and spatial distribution of changes during spotaneous seizures in monkey brain. A. A. Ward, Jr., W. S. McCulloch and N. Kopeloff 377

Antidromic potential recordings from the bulbar pyramid of the cat. John M. Brookhart and Russell E. Morris 387

NO. 5. SEPTEMBER 1948

Inhibitory action on a motor nucleus and focal potentials generated therein. C. McC. Brooks and J. C. Eccles 401

Synaptic potentials of inhibited motoneurones. C. McC. Brooks, J. C. Eccles and J. L. Malcolm 417

Inhibition of antidromic responses of motoneurones. C. McC. Brooks and J. C. Eccles 431

Anatomical considerations of monosynaptic reflex arcs. John Szentágothai 445

Analysis of forelimb-hindlimb reflex activity in acutely decapitate cats. D. P. C. Lloyd and A. K. McIntyre 455

NO. 6. NOVEMBER 1948

Metabolism of brain tissue slices and suspensions from various mammals. K. A. C. Elliott 473

Respiration and glycolysis of focal epileptogenic human brain tissue. K. A. C. Elliott and Wilder Penfield 485

Influence of drugs on response of a crustacean synapse to pre-ganglionic stimulation. C. A. G. Wiersma and William Schallek 491

Synaptic fatigue and chemical mediators of postganglionic fibers. J. V. Luco and F. Goñi 497

Reticulo-spinal influences on stretch reflexes. James M. Sprague, L. H. Schreiner, D. B. Lindsley and H. W. Magoun 501

Excitation in relation to voltage changes along nerve surface. Gordon M. Schoepfle 509